Killam
Associates □ Consulting Engineers

27 Bleeker Street
P.O. Box 1008
Millburn, NJ 07041-1008
Telephone: 201-379-3400
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July 13, 1992

Mr. Gary Sanderson
NJDEPE
Division of Responsible Party Site Remediation
BEECRA
401 E. State Street
Trenton, NJ 08625-0082

RE: May 1992
Monthly Project Status Report
Hexcel Corporation -
Industrial Chemicals Group
("Hexcel) ECRA Case No. 86009

Dear Mr. Sanderson,

On behalf of the Hexcel Corporation, Heritage Remediation/Engineering, Inc. (HR/E), has prepared this monthly status report on remedial activities performed at the above referenced site for your use. This report is in partial fulfillment of paragraph 36 of the August 7, 1991 conditional approval letter requiring the submittal of a monthly status report and describes activities performed over the period from April 1, 1992 to May 1, 1992.

Although the report was compiled by HR/E, Killam is submitting it to the NJDEPE. As described in my June 23, 1992 letter to you, Killam Associates has been retained by the Hexcel Corporation. In the future, the monthly project status reports will be prepared and submitted by Killam.

Also as mentioned in my June 23 letter to you, we would like to meet with you and your project staff to go over the case and to keep the project moving in an efficient manner. We could meet at your convenience; please call me to arrange the time. If you have any questions, please contact me.

Very truly yours,

KILLAM ASSOCIATES

William F. Hoehlein

cc: A. William Nosil

DJN:WFH:mma
0713HEXC

MAY 1992
MONTHLY PROJECT STATUS REPORT
FOR
FORMER HEXCEL INDUSTRIAL CHEMICALS FACILITY

Lodi Borough, Bergen County
Lodi, New Jersey

ECRA Case #86009

Submitted to:

New Jersey Department of Environmental Protection and Energy
Bureau for Environmental Cleanup Response Activities
401 East State Street, 5th Floor
Trenton, New Jersey 08625

Prepared by:

Heritage Remediation/Engineering, Inc.
5656 Opportunity Drive
Toledo, Ohio 43612

July 7, 1992

STATUS ON IMPLEMENTATION OF THE CLEAN-UP PLAN

During the period from May 1, 1992 to June 1, 1992 Heritage Remediation/Engineering, Inc. (HR/E) performed site activities from May 18 through May 20, 1992. In addition, Essam Saleh pumped and treated basement seepage water. This report also includes information on two monitoring wells that were installed and soil borings that were advanced for soils delineation in April 1992.

A. GROUND WATER

Collection of Basement Seepage Water

The air stripping towers and incinerator were operated in May 1992, treating 4,150 gallons of basement seepage water.

Upper Overburden Aquifer

No additional work was performed relating to the upper overburden aquifer. Laboratory results were obtained from All-Test Environmental Laboratories.

Ground-Water Sampling and Analysis

Ground-water samples were obtained in April 1992 from MW-32, MW-33, CW-1, CW-2, and CW-10 for VO+15 analysis. These wells were sampled after they had been purged of well casing water with a pneumatic purge/sample pump. A new dedicated teflon bailer was utilized for each well sample. Results of the analysis are found in Attachment A and are summarized in Table 1 as follows:

TABLE 1
WATER ANALYTICAL RESULTS
(Samples taken April, 1992)
(All results are in $\mu g/\ell$)

WELL NO.	METHYLENE CHLORIDE	TRICHLORO-ETHENE	CHLORO-BENZENE	TETRACHLORO-ETHENE	1,3 DICHLORO-BENZENE	1,2 DICHLORO-BENZENE	OTHER
CW-1	ND	ND	ND	46.1	8.5	8.5	69.6 DICHLOROETHANE 25.6 TRICHLOROETHANE
CW-2	21	40	46	ND	40	40	129.4 DICHLOROETHANE 24 TOLUENE 380 1,4 DICHLOROBENZENE 208.27 NAPTHALENE
CW-10	ND	ND	880.5	59	ND	ND	1556.7 4,5,6 TRIMETH-OXYINDOLE
MW-32	10,040	201	188	ND	94	94	292 TRANS-1,2 DICHLOROETHENE 175 TOLUENE 273 1,4 DICHLOROBENZENE
MW-33	ND	ND	ND	ND	ND	ND	14.5 CHLOROFORM 37.02 UNKNOWN 105.7 ACETAMIDE, N-4-(TRIMETHYSIL)

ND - Not detected at method detection level

Water Level Monitoring Program

Static water levels were not collected in May 1992.

A Ground-Water Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent ground-water measurement data from a representative set of monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

Lower Overburden Aquifer

No additional work was performed relating to the lower overburden aquifer. Analytical results were obtained from All-Test Environmental Laboratories in the evaluation of MW-7 and MW-9.

Water Level Monitoring Program

Static water levels were not collected in May 1992. A Ground-Water Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent ground-water measurement data from a representative set of monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

Evaluation of MW-7 and MW-9

To evaluate the integrity of monitoring wells MW-7 and MW-9, HR/E obtained ground-water samples from the wells on April 4, 1992. The wells were purged of well casing water with a pneumatic purge/sample pump. The recovered water was containerized in 55-gallon drums for on site treatment. The ground water samples were placed on ice and maintained at a temperature of approximately 4° C until the samples were transferred to the laboratory. The ground water samples were analyzed for VO+15. The analytical results can be found attached in Attachment A. A summary of previous analytical results (September, 1988) and the most recent results are listed in Table 2.

The integrity of both MW-7 and MW-9 appear not to have been compromised, as indicated by the analytical results being about the same concentration as previously reported. HR/E proposes that MW-7 and MW-9 remain in place as is. Because of the wells proximity to the DNAPL contaminated area of the site, periodic sampling may need to be performed to assure the integrity of the wells is maintained. The following Table 2 summarizes previous and current analytical results from MW-7 and MW-9.

TABLE 2
EVALUATION OF MW-7 AND MW-9
ANALYTICAL SUMMARY

	MW-7		MW-9	
PARAMETER	Previously Reported 9/88 ($\mu g/\ell$)	4-28-92 ($\mu g/\ell$)	Previously Reported 9/88 ($\mu g/\ell$)	4-28-92 ($\mu g/\ell$)
1,2-Dichloroethane	15	ND	1.6_j	ND
Bromodichloromethane	5.9	ND	ND	ND
Chloroform	70	ND	3.4_j	ND
Tetrachloroethene	7.3	4_j	9	2_j
Trans-1,2 -Dichloroethene	5.5	ND	5.1	ND
Trichloroethene	11	22.3	12	23
Chlorobenzene	ND	3_j	ND	10.7
Tris-o-(Trimethylsilyc)-Glycer	---	39.76	---	---
Propanoic acid,2,2,3- Trichlor	---	---	---	9.33

X_j - Below detection limit
ND - Not detected

Bedrock Aquifer

To comply with NJDEPE's July 12, 1991 and March 5, 1992 letters, a packer test was performed on Fine Organics production well. A description of that activity and results is being prepared and will be presented at a later date.

B. SOILS

Pilot Soil Vapor Extraction

A proposal for a pilot soils cleanup plan has been delayed until completion of soils delineation sampling which was implemented in April 1992. A proposal for pilot testing of a soil vapor extraction system will be prepared and submitted as part of the soils cleanup plan. The cleanup plan will include the former fuel oil UST area adjacent to the boiler room and former gasoline UST area adjacent to Building 6. We anticipate a submittal date of September 15, 1992.

Soils Delineation Sampling

Soil borings were installed at locations as per NJDEPE letter dated December 23, 1991 in response to Hexcel's Proposed Remedial Investigation Activities dated August 8, 1991 for soil delineation sampling, and as per the NJDEPE letter dated March 5, 1992 and meeting on March 17, 1992. During the week of April 20, 1992, the following soil borings and monitoring wells were installed: Borings 113, 507 (MW-32), 508, 613, and MW-33.

Soils Laboratory Analysis

Soil samples were submitted to All-Test Environmental Laboratories, Inc. under proper chain-of-custody procedures. The samples were analyzed for volatile organic compounds with a forward library search (VO+15), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCBs), and priority pollutants plus 40 (PP+40). Laboratory analytical results are presented in Attachment A and are summarized in Table 4. An oily soil sample from soil boring 508 was analyzed for qualitative GC fingerprint, PCBs, and TPH. Quantitative analysis

(see Appendix D) was not possible as the laboratory did not have a known standard for the oil contained in the soil sample. TPH concentration was 925.8 mg/kg and PCBs were not detected.

TABLE 4
SOIL ANALYTICAL RESULTS
(Samples taken April 1992)
(All results in μg/Kg except PCB's and TPH as shown)

BORING & SAMPLE	TPH (mg/kg)	METHYLENE CHLORIDE	CHLORO BENZENE	TOLUENE	ETHYL BENZENE	DICHLORO BENZENE	XYLENE	OTHER
613-001	NA	420.5	ND	16.7	ND	ND	ND	–
613-004	NA	448	42,230	48,269	98.6	(1,4) 444	(M+O) 136 (P) 1063	2.14 μg/Kg PCB
113-002	NA	11	ND	ND	ND	ND	ND	–
113-003	5,944.2	86.2	ND	ND	ND	(1,4) 60	(P) 40.5	22.5 Trichloroethene 204.9 Tetrachloroethene 3834 Anthracene 3483.8 Phenanthrene 1159 2,6 Dinitrotoluene 1432.8 Napthalene 2.16 μg/Kg PCB
507-004	32.7	136	ND	ND	ND	(1,4) 114		4879 Pentachloropheno 1405 Phenanthrene 1549 Anthracene
508-004	925.8	NA	NA	NA	NA	NA	NA	–
MW33-004	32.9	42.4	ND	ND	ND	(1,3) 336 (1,4) 336		115198 Phenanthrene 2103 Anthracene 3972 Di-n-Butylphthalat 2548 Pyrene
MW-33-008	45.3	ND	ND	ND	ND	ND	ND	–

ND - Not detected at detection levels
NA - Not analyzed

C. GROUND WATER TREATMENT SYSTEM OPERATION

During this period 3,800 gallons of basement seepage water was discharge to the PVSC (see Appendix B). This water was collected and treated during the month of April 1992.

D. DENSE NON-AQUEOUS PHASE LIQUID (DNAPL)

DNAPL Recovery System

Approximately 500 gallons of water with some DNAPL was recovered during May 1992. This water was derived from RW7-1 and RW7-5 and was placed in tank H-7. Approximately 5 gallons of a DNAPL/water mixture separated from the 500 gallons of water extracted from the recovery wells.

DNAPL Monitoring Program

A DNAPL Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent DNAPL and ground-water measurement data from a representative set of DNAPL recovery wells and monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

E. LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL)

LNAPL Recovery System

The LNAPL recovery system was not operated during May 1992.

LNAPL Monitoring Program

A LNAPL Monitoring Plan is being prepared which describes in full detail the methodologies and procedures necessary to assure consistent LNAPL and ground-water measurement data from a representative set of LNAPL recovery wells and monitoring wells. The basis of this monitoring plan is conditions imposed by the NJDEPE letter dated March 5, 1992 as part of ECRA requirements.

F. STATUS OF PERMITS

Air Control Apparatus

Permit #01903837 expires on June 30, 1992.

SIU Permit

The Bureau of Industrial Discharge Permits has indicated that the Hexcel draft SIU permit will not be finalized. Rather, the discharge will be considered exempt because the PVSC is an authorized treatment plant. However, a permit from the PVSC is required. Authorization to discharge is anticipated to be granted in July 1992.

PVSC Discharge Permit

Enclosed in Appendix C is a copy of Revisions to Sewer Connection Permit.

NJPDES Discharge to Ground Water Permit

No activity occurred during this time period.

NJPDES Discharge to Surface Water Permit

A telephone conversation with Mr. Walter Olivant (Discharge to Surface Water Permit Section) on May 29, 1992 provided some insight as to the status of the surface water discharge permit application submitted in December 1991. Mr. Olivant indicated that the application had probably not been assigned a case worker. The application is likely to be assigned by the end of June 1992, and will take about six months to be reviewed. If stream sampling has not been conducted, then the Department may issue a permit contingent on stream sampling. Discharge limits have not been established.

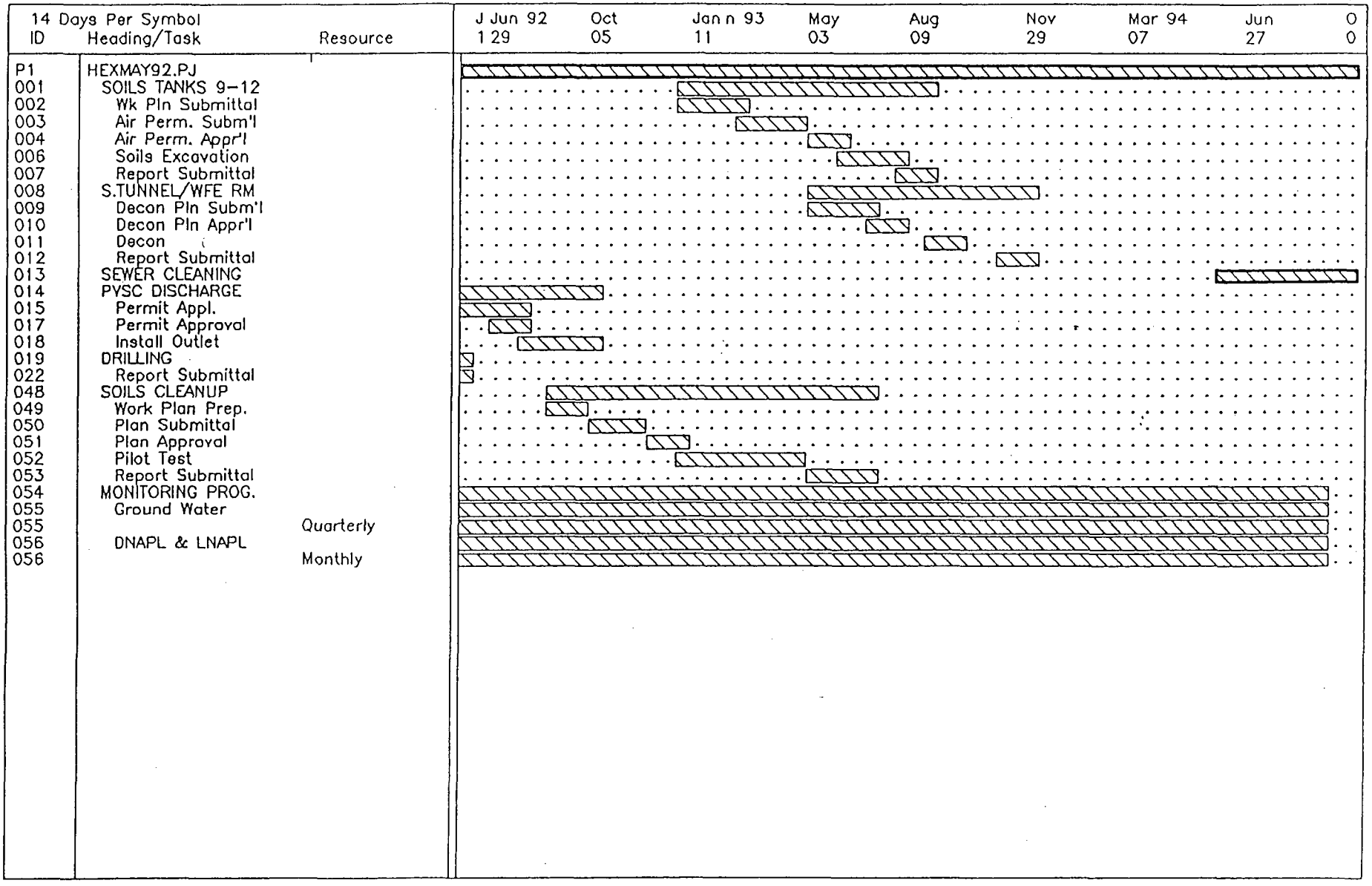
G. SCHEDULE UPDATE

The attached schedule (Table 5) summarizes the projected timetable for the current period.

TABLE 5
UPDATED SCHEDULE OF ACTIVITIES

Task Gantt

Project: HEXMAY92.PJ
06-16-92



APPENDIX A

Packer Test Analytical Results
and
Stiff Diagrams

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Client Name: Heritage Rem/Eng. Co. Inc. Date: May 04, 1992
Laboratory Project # S-2993
Reference: Hexel, PW Packer
Location: Lodi, New Jersey

LABORATORY AUTHENTICATION STATEMENT

I certify that ALL-TEST ENVIRONMENTAL LABORATORIES meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18, 40 CFR Part 136 for Water and Wastewater analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR Part 136, and/or SW 846.

By:

Irving Berkowitz
Laboratory Manager

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 06, 1992

Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: PW Packer Bottom
Laboratory Project No. S-2993

Please note the following results for the water sample received on 04/24/92 and analyzed for the following parameters:

Analysis	Results	MDL ppb
Total Cadmium	ND	20
Total Chromium	ND	20
Total Copper	ND	20
Total Lead	ND	50
Total Arsenic	ND	5
Total Selenium	ND	5
Total Zinc	0.056 mg/l (ppm)	20
Total Mercury	ND	0.05
Iron	1.475 mg/l (ppm)	50
Potassium	1.694 mg/l (ppm)	20
Calcium	79.84 mg/l (ppm)	50
Magnesium	67.56 mg/l (ppm)	50
Carbonate	0.0 mg/l as CaC03	
Bicarbonate	185 mg/l as CaC03	
Sulfate	682 mg/l (ppm)	
Chloride	14.0 mg/l (ppm)	
pH	7.480	
Conductance	1000 micromhos/cm	
Total Alkalinity	185.0 mg/l as CaC03	
Hardness	580.0 mg/l as CaC03	
Total Dissolved Solids	762.0 mg/l (ppm)	

By: I. Berkowitz
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected (below MDL)

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070014

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 06, 1992

Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: PW Packer #4
Laboratory Project No. S-2993

Please note the following results for the water sample received on 04/24/92 and analyzed for the following parameters:

Analysis	Results	MDL ppb
Total Cadmium	ND	20
Total Chromium	ND	20
Total Copper	ND	20
Total Lead	ND	50
Total Arsenic	ND	5
Total Selenium	ND	5
Total Zinc	0.027 mg/l (ppm)	20
Total Mercury	ND	0.05
Iron	1.353 mg/l (ppm)	50
Potassium	3.220 mg/l (ppm)	20
Calcium	84.60 mg/l (ppm)	50
Magnesium	77.28 mg/l (ppm)	50
Carbonate	1.0 mg/l as CaC03	
Bicarbonate	199 mg/l as CaC03	
Sulfate	580.0 mg/l (ppm)	
Chloride	14.0 mg/l (ppm)	
pH	7.480	
Conductance	1000 micromhos/cm	
Total Alkalinity	200.0 mg/l as CaC03	
Hardness	512.0 mg/l as CaC03	
Total Dissolved Solids	781.0 mg/l (ppm)	

By:
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected (below MDL)

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884070015

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 06, 1992

Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: PW Packer #3
Laboratory Project No. S-2993

Please note the following results for the water sample received on 04/24/92 and analyzed for the following parameters:

Analysis	Results	MDL ppb
Total Cadmium	ND	20
Total Chromium	ND	20
Total Copper	ND	20
Total Lead	ND	50
Total Arsenic	ND	5
Total Selenium	ND	5
Total Zinc	0.031 mg/l (ppm)	20
Total Mercury	ND	0.05
Iron	ND	50
Potassium	1.754 mg/l (ppm)	20
Calcium	73.84 mg/l (ppm)	50
Magnesium	65.44 mg/l (ppm)	50
Carbonate	2.0 as CaC03 mg/l	
Bicarbonate	186 sa CaC03 mg/l	
Sulfate	398 mg/l (ppm)	
Chloride	18.0 mg/l (ppm)	
pH	7.520	
Conductance	9500 micromhos/cm	
Total Alkalinity	188.0 as CaC03 mg/l	
Hardness	496.0 as CaC03 mg/l	
Total Dissolved Solids	720.0 mg/l (ppm)	

By:
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected (below MDL)

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884070016

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 06, 1992

Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: PW Packer #2
Laboratory Project No. S-2993

Please note the following results for the water sample received on 04/24/92 and analyzed for the following parameters:

Analysis	Results	MDL ppb
Total Cadmium	ND	20
Total Chromium	ND	20
Total Copper	ND	20
Total Lead	ND	50
Total Arsenic	ND	5
Total Selenium	ND	5
Total Zinc	0.028 mg/l (ppm)	20
Total Mercury	ND	0.05
Iron	ND	50
Potassium	1.689 mg/l (ppm)	20
Calcium	85.04 mg/l (ppm)	50
Magnesium	76.44 mg/l (ppm)	50
Carbonate	1.0 as CaC03 mg/l	
Bicarbonate	198 as CaC03 mg/l	
Sulfate	668.0 mg/l (ppm)	
Chloride	14.0 mg/l (ppm)	
pH	7.477	
Conductance	1000 micromhos/cm	
Total Alkalinity	199.0 as CaC03 mg/l	
Hardness	548.0 as CaC03 mg/l	
Total Dissolved Solids	853.0 mg/l (ppm)	

By: I Berkowitz
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected (below MDL)

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884070017

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 06, 1992

Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: PW Packer #1
Laboratory Project No. S-2993

Please note the following results for the water sample received on 04/24/92 and analyzed for the following parameters:

Analysis	Results	MDL ppb
Total Cadmium	ND	20
Total Chromium	ND	20
Total Copper	ND	20
Total Lead	ND	50
Total Arsenic	ND	5
Total Selenium	ND	5
Total Zinc	0.098 mg/l (ppm)	20
Total Mercury	ND	0.05
Iron	ND	50
Potassium	1.826 mg/l (ppm)	20
Calcium	88.04 mg/l (ppm)	50
Magnesium	75.80 mg/l (ppm)	50
Carbonate	2.0 as CaC03 mg/l	
Bicarbonate	186 as CaC03 mg/l	
Sulfate	568.0 mg/l (ppm)	
Chloride	21.0 mg/l (ppm)	
pH	7.331	
Conductance	9000 micromhos/cm	
Total Alkalinity	188.0 as CaC03 mg/l	
Hardness	536.0 as CaC03 mg/l	
Total Dissolved Solids	878.0 mg/l (ppm)	

By: Irving Berkowitz
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected (below MDL)

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070018

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel — Matrix: Water
Sample No. S-2993 PW Packer #1 — Dilution Factor: 1
Client Name: Heritage Rem/Eng. Co. — Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND **	5
Trans-1,2 Dichloroethene	ND	5
1,1 Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	2J	5
1,2-Dichloroprapane	ND	5
Bromodichloromethane	ND	5
Trans-1,3-Dichloropropene	ND	5
Toluene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5
Tetrachloroethene	4J	5
Dibromochloromethane	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
m&o Xylenes	ND	10
p Xylene	ND	10
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #1
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Methyl Tert. Butal Ether (MTBE)	2J	50
Tertiary Butal Alcohol (TBA)	ND	10

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	96%	70-121
Toluene-d8	98%	81-117
4-Bromofluorobenzene	107%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data
Tentatively Identified Compounds

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #1
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND NAME	RT	EST. CONC. ug/l	Quality
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel — Matrix: Water
Sample No. S-2993 PW Packer #2 — Dilution Factor: 1
Client Name: Heritage Rem/Eng. Co. — Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND **	5
Trans-1,2 Dichloroethene	ND	5
1,1 Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	6.08	5
1,2-Dichloroprapane	ND	5
Bromodichloromethane	ND	5
Trans-1,3-Dichloropropene	ND	5
Toluene	2J	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5
Tetrachloroethene	5.96	5
Dibromochloromethane	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
m&o Xylenes	ND	10
p Xylene	ND	10
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel — Matrix: Water
Sample No. S-2993 PW Packer #2 — Dilution Factor: 1
Client Name: Heritage Rem/Eng. Co. — Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Methyl Tert. Butal Ether (MTBE)	2J	50
Tertiary Butal Alcohol (TBA)	ND	10

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	96%	70-121
Toluene-d8	96%	81-117
4-Bromofluorobenzene	107%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data
Tentatively Identified Compounds

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #2
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND NAME	RT	EST. CONC. ug/l	Quality
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #3
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND **	5
Trans-1,2 Dichloroethene	ND	5
1,1 Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	6.58	5
1,2-Dichloroprapane	ND	5
Bromodichloromethane	ND	5
Trans-1,3-Dichloropropene	ND	5
Toluene	21.28	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5
Tetrachloroethene	4J	5
Dibromochloromethane	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
m&o Xylenes	ND	10
p Xylene	ND	10
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5

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Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #3
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Methyl Tert. Butal Ether (MTBE)	1J	50
Tertiary Butal Alcohol (TBA)	ND	10

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	98%	70-121
Toluene-d8	98%	81-117
4-Bromofluorobenzene	107%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

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(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data
Tentatively Identified Compounds

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #3
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND NAME	RT	EST. CONC. ug/l	Quality
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel — Matrix: Water
Sample No. S-2993 PW Packer #4 — Dilution Factor: 1
Client Name: Heritage Rem/Eng. Co. — Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND **	5
Trans-1,2 Dichloroethene	ND	5
1,1 Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	7.4	5
1,2-Dichloroprapane	ND	5
Bromodichloromethane	ND	5
Trans-1,3-Dichloropropene	ND	5
Toluene	ND	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5
Tetrachloroethene	3J	5
Dibromochloromethane	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
m&o Xylenes	ND	10
p Xylene	ND	10
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #4
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Methyl Tert. Butal Ether (MTBE)	2J	50
Tertiary Butal Alcohol (TBA)	ND	10

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	96%	70-121
Toluene-d8	99%	81-117
4-Bromofluorobenzene	107%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data
Tentatively Identified Compounds

Project No. 61064 Hexel
Sample No. S-2993 PW Packer #4
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND NAME	RT	EST. CONC. ug/l	Quality
1) UNKNOWN	3.33	22.88	0
2) UNKNOWN	39.72	29.86	0
3) Acetamide, N-[4-(trimethylsil	40.85	53.35	37
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Bottom
Client Name: Heritage Rem/Eng. Co.
Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND **	5
Trans-1,2 Dichloroethene	ND	5
1,1 Dichloroethane	ND	5
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	4J	5
1,2-Dichloroprapane	ND	5
Bromodichloromethane	ND	5
Trans-1,3-Dichloropropene	ND	5
Toluene	31.4	5
Cis-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
2-Chloroethyl Vinyl Ether	ND	5
Tetrachloroethene	1J	5
Dibromochloromethane	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
m&o Xylenes	ND	10
p Xylene	ND	10
Bromoform	ND	5
1,1,2,2-Tetrachloroethane	ND	5

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Project No. 61064 Hexel
Sample No. S-2993 PW Bottom
Client Name: Heritage Rem/Eng. Co.

Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
Methyl Tert. Butal Ether (MTBE)	1J	50
Tertiary Butal Alcohol (TBA)	ND	10

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	94%	70-121
Toluene-d8	100%	81-117
4-Bromofluorobenzene	108%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070032

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data
Tentatively Identified Compounds

Project No. 61064 Hexel
Sample No. S-2993 PW Bottom
Client Name: Heritage Rem/Eng. Co.

Matrix: Water
Dilution Factor: 1
Date Analyzed: 04/25/92

COMPOUND NAME	RT	EST. CONC. ug/l	Quality
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			

5-2993

HERITAGE

CHAIN OF CUSTODY RECORD

HERITAGE REMEDIATION/ENGINEERING, INC.

Toledo Division • 5656 Opportunity Drive • Toledo, OH 43612

PROJ. NO.	PROJECT NAME
610624	Hexcel

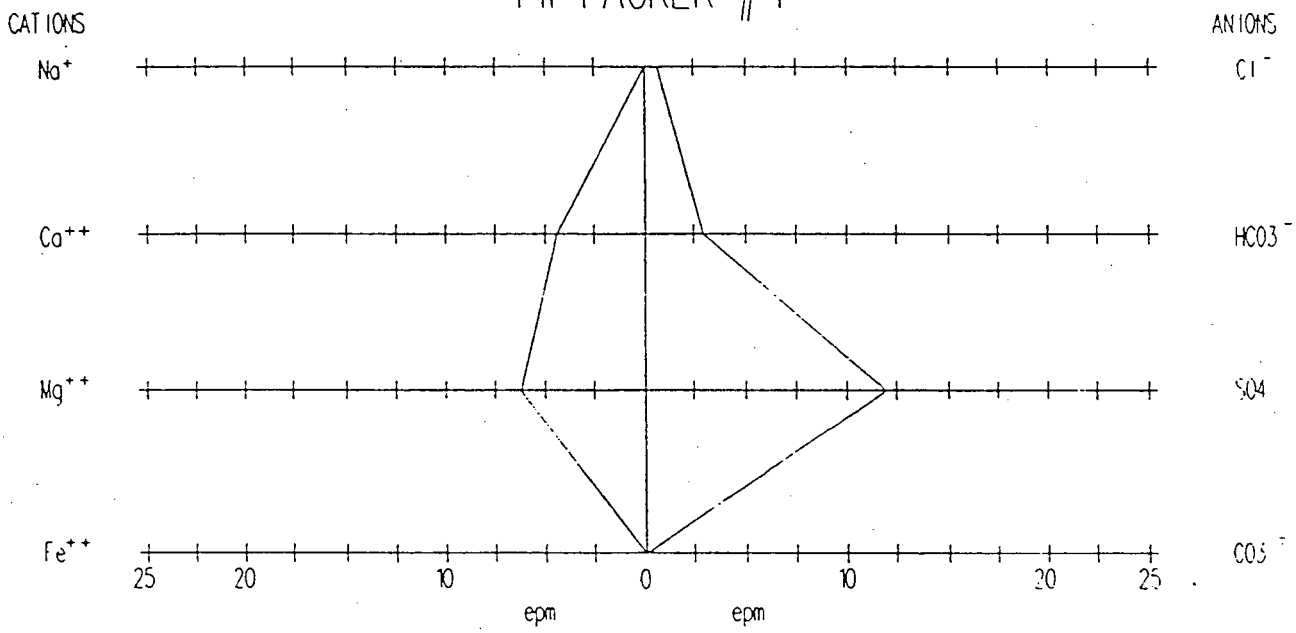
SAMPLERS: (Signature) Robert K Beckwith

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Conductivity	pH Fe, Na	Ca, Mg, SO4	VOA's	Cl, NO3, Alk	Hardness (carbon)	Bicarbonate	REMARKS
1	4-22			X	PW-Packer #1	3	✓	✓	✓	✓	✓	✓	✓	
2	4-22			X	PW-Packer #2	3	✓	✓	✓	✓	✓	✓	✓	
3	4-22			X	PW-Packer #3	3	✓	✓	✓	✓	✓	✓	✓	
4	4-23			X	PW-Packer #4	3	✓	✓	✓	✓	✓	✓	✓	
5	4-23			X	PW-Bottom	3	✓	✓	✓	✓	✓	✓	✓	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Robert K Beckwith	4-24-92 0830	Robert M. Bangston	Robert M. Bangston	4/24/92 0900	R. Beckwith
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

884070034

Stiff Diagram
of
PW PACKER #1



CATIONS:		ppm	epm	%epm	ANIONS:		ppm	epm	%epm
SODIUM	Na^{+}	NO ANALYTICAL			CHLORIDE	Cl^{-}	21.00	0.59	3.81
POTASSIUM	K^{+}	1.83	0.05	0.44	BICARBONATE	$HCO3^{-}$	186.00	3.05	19.63
CALCIUM	Ca^{++}	88.04	4.39	41.15	SULFATE	$SO4^{=}$	568.00	11.83	76.13
MAGNESIUM	Mg^{++}	75.80	6.24	58.41	CARBONATE	$CO3^{=}$	2.00	0.07	0.43
IRON	Fe^{++}	0.00	0.00	0.00	NITRATE	$NO3^{=}$	NO ANALYTICAL		

error in cation/anion balance: -18.54%

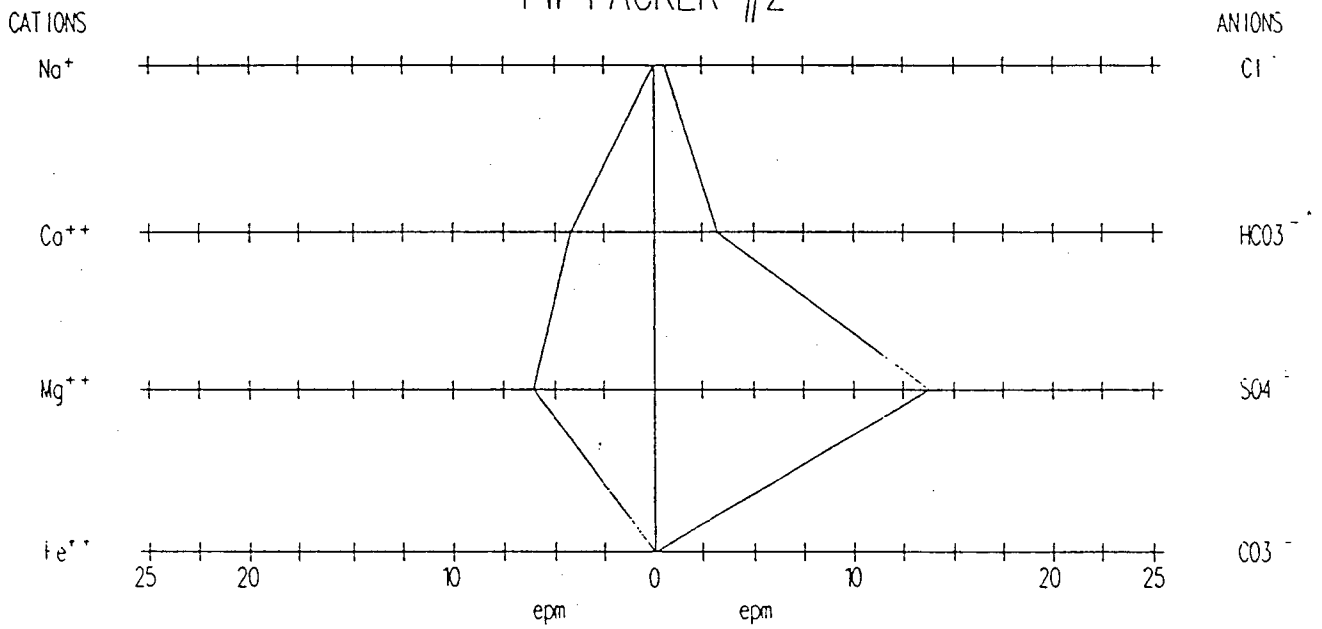
Total Hardness (as CaCO3): 531.96 (Very Hard)

pwpack1.dwg

FORMER HEXCEL CORP. SITE
LODI, NJ
6/06/04

884070035

Stiff Diagram
of
PW PACKER #2



CATIONS:		ppm	epm	%epm	ANIONS:		ppm	epm	%epm
SODIUM	Na^+	NO ANALYTICAL			CHLORIDE	Cl^-	14.00	0.39	2.25
POTASSIUM	K^+	1.69	0.04	0.41	BICARBONATE	$HCO3^-$	193.00	3.25	18.46
CALCIUM	Ca^{++}	85.04	4.24	40.13	SULFATE	$SO4^=$	668.00	13.91	79.11
MAGNESIUM	Mg^{++}	76.44	6.29	59.46	CARBONATE	$CO3^=$	1.00	0.03	0.19
IRON	Fe^{++}	0.00	0.00	0.00	NITRATE	$NO3^=$	NO ANALYTICAL		

error in cation/anion balance: -24.89%

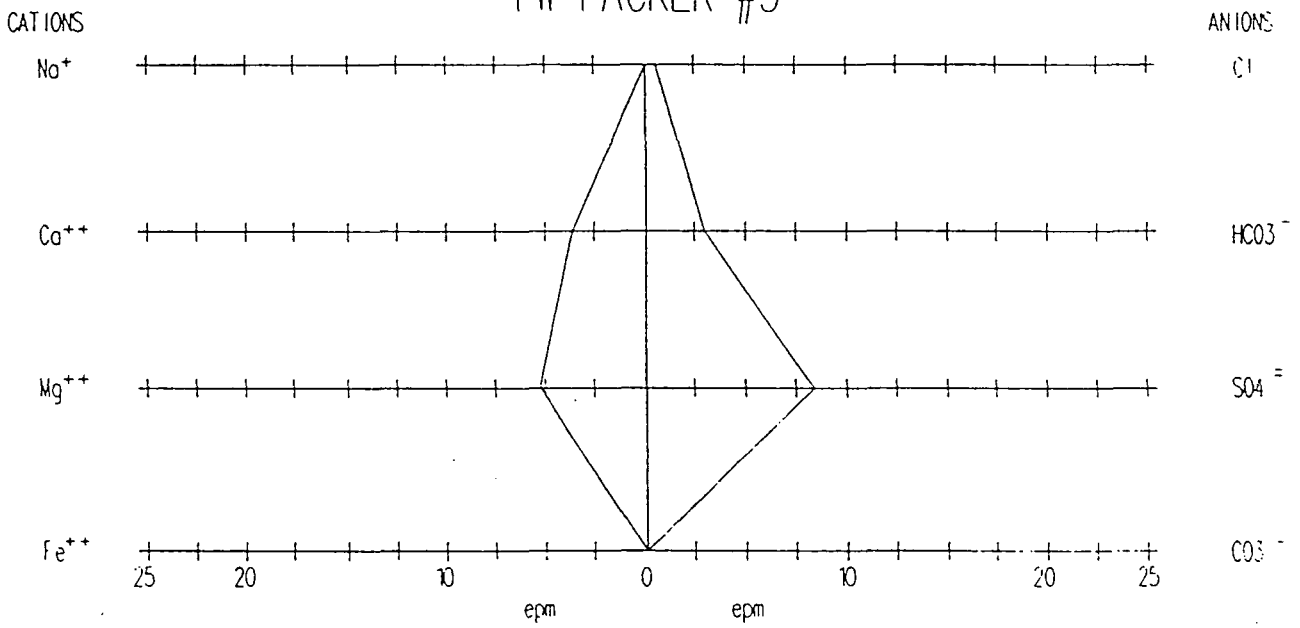
Total Hardness (as CaCO3): 527.10 (Very Hard)

pwpack2.dwg

FORMER HEXCEL CORP. SITE
LODI, NJ
61064

884070036

Stiff Diagram
of
PW PACKER #3



CATIONS:		ppm	epm	%epm
SODIUM	Na^+	NO ANALYTICAL		
POTASSIUM	K^+	1.75	0.04	0.49
CALCIUM	Ca^{++}	73.84	3.68	40.43
MAGNESIUM	Mg^{++}	65.44	5.38	59.07
IRON	Fe^{++}	0.00	0.00	0.00

error in cation/anion balance: -13.30%

ANIONS:		ppm	epm	%epm
CHLORIDE	Cl^-	18.00	0.51	4.26
BICARBONATE	$HCO3^-$	186.00	3.05	25.60
SULFATE	$SO4^=$	398.00	8.29	69.58
CARBONATE	$CO3^=$	2.00	0.03	0.56
NITRATE	$NO3^=$	NO ANALYTICAL		

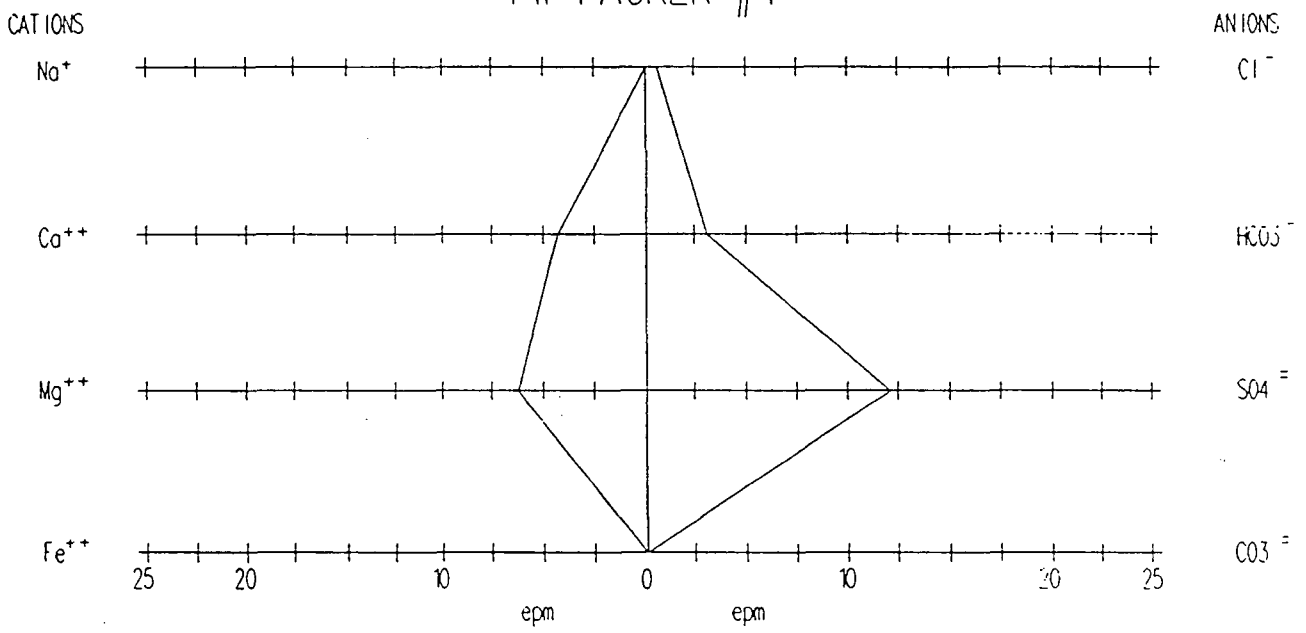
Total Hardness (as CaCO3): 455.64 (Very Hard)

pwpack3.dwg

FORMER HEXCEL CORP. SITE
LODI, NJ
61064

884070037

Stiff Diagram
of
PW PACKER #4



CATIONS:		ppm	epm	%epm
SODIUM	Na^+	NO ANALYTICAL		
POTASSIUM	K^+	3.22	0.08	0.77
CALCIUM	Ca^{++}	84.60	4.22	39.33
MAGNESIUM	Mg^{++}	77.28	6.36	59.23
IRON	Fe^{++}	1.35	0.07	0.68
error in cation/anion balance:		-18.99%		

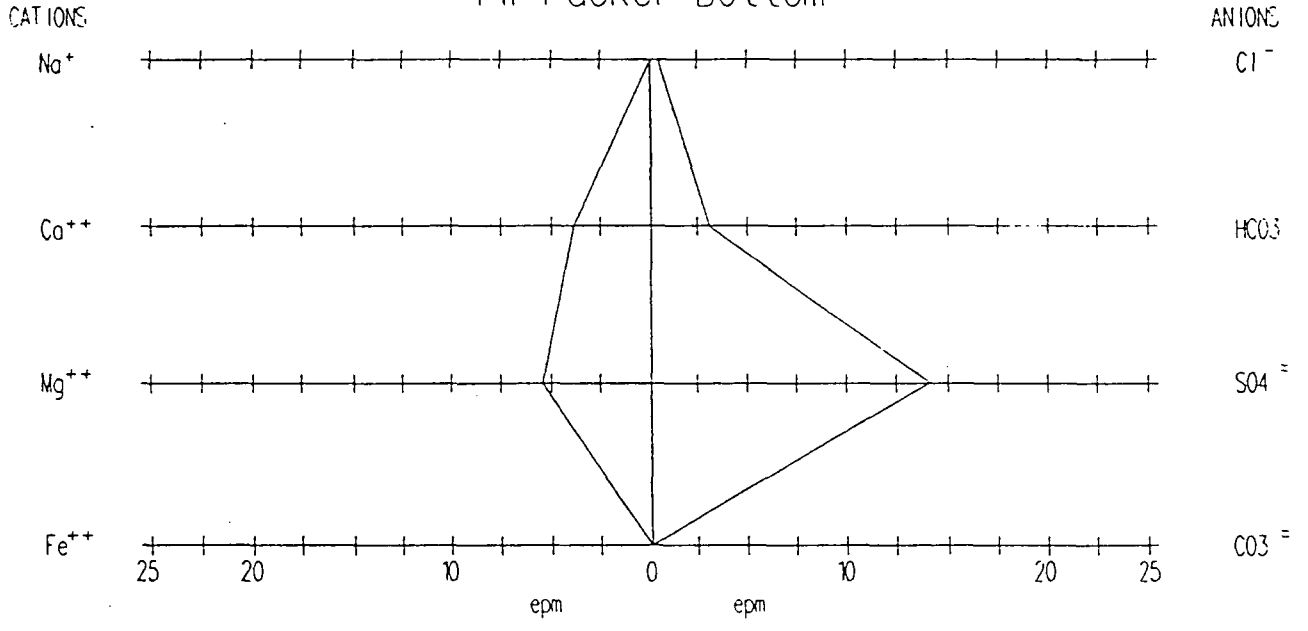
ANIONS:		ppm	epm	%epm
CHLORIDE	Cl^-	14.00	0.39	2.51
BICARBONATE	$HCO3^-$	199.00	3.26	20.69
SULFATE	$SO4^=$	580.00	12.08	76.60
CARBONATE	$CO3^=$	1.00	0.03	0.21
NITRATE	$NO3^=$	NO ANALYTICAL		
Total Hardness (as CaCO3):		509.46 (Very Hard)		

pwpack4.dwg

FORMER HEXCEL CORP. SITE
LODI, NJ
61064

884070038

Stiff Diagram
of
PW Packer Bottom



CATIONS:		ppm	epm	%epm	ANIONS:		ppm	epm	%epm
SODIUM	Na^+	NO ANALYTICAL			CHLORIDE	Cl^-	14.00	0.39	2.24
POTASSIUM	K^+	1.69	0.04	0.45	BICARBONATE	$HCO3^-$	185.00	3.03	17.20
CALCIUM	Ca^{++}	79.84	3.98	41.23	SULFATE	$SO4^=$	682.00	14.20	80.56
MAGNESIUM	Mg^{++}	67.56	5.56	57.51	CARBONATE	$CO3^=$	0.00	0.00	0.00
IRON	Fe^{++}	1.48	0.08	0.82	NITRATE	$NO3^=$	NO ANALYTICAL		

error in cation/anion balance: -29.18 %

Total Hardness (as CaCO3): 477.56 (very Hard)

[illegible]
LODI, NJ
61064

pwbotstf.dwg

884070039

APPENDIX B

June 2, 1992 PVSC Letter
Approval for Treatment and Discharge of Basement Seepage Water

HERITAGE REMEDIATION/ENGINEERING, INC.

5656 Opportunity Drive
Toledo, OH 43612
Phone: 419/478-4396
FAX: 419/478-4560

June 2, 1992

Mr. Jim Higdon
FINE ORGANICS CORPORATION
205 Main St.
PO Box 687
Lodi NJ 07644

Re: 1992 May Hexcel contribution to Fine Organics Corporation Industrial User Discharge Report MR-2 form.
HR/E Project No. 60027/8.3

Dear Jim:

Attached is the MR-2 form presenting analytical data for the batch discharge of treated basement seepage water. Since we have not begun continuous treatment and discharge, we have not begun collecting all of the information requested as part of the current permit.

If you have any questions, do not hesitate to contact us.

Sincerely yours,
Heritage Remediation/Engineering, Inc.

Joseph D. Ritchey, P.E.
Engineering Manager

JDR:djs

Attachments

cc: A. William Nosil

92JR2043.T1

884070041

USER CHARGE SELF MONITORING REPORT

NAME: Fine Organics Corporation

ADDRESS: 205 Main Street, Lodi, NJ 07644

FACILITY LOCATION:

OUTLET DESIGNATION (17 DIGITS): 17405041-37430-0171 Outlet # Industrial Sewer

MONITORING PERIOD					
05	01	92	05	31	92
MO	DAY	YEAR	MO	DAY	YEAR
START			END		

Vol Discharged This Period
3,800 GALS
CU.FT X 7.48 = Gallons
Effluent Meter Reading Last Day This Period

DATE	BOD 0310 (mg/ℓ)	TSS 0530 (mg/ℓ)	pH	COD	µg/ℓ PCB	Station Location	Lab Sample #	Gal.
04/22	65.7	10.0	8.2	3250	0.685	Final H-1	S-2976	3,800
04/29					<.50	Final H-1	S-3009	-
05/04	-	-	-	-	--	Discharge Hose	S-3017	-
					ND indicates less than 0.5 µg/ℓ			

SIGNATURE OF PRINCIPAL OR AUTHORIZED AGENT	TYPE NAME AND TITLE	TELEPHONE NO.
	Joseph D. Ritchey	800-338-4396
	Engineering Manager	
		DATE 06/02/92

PVSC FORM MR-2 REV. 2 1/86

92JR2043.T1

884070042

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Client Name: Heritage Rem/Eng. Co. Inc. Date: April 28, 1992
Laboratory Project # S-2976
Reference: Hexel
Location: Lodi, New Jersey

LABORATORY AUTHENTICATION STATEMENT

I certify that ALL-TEST ENVIRONMENTAL LABORATORIES meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18, 40 CFR Part 136 for Water and Wastewater analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR Part 136, and/or SW 846.

By:

Irving Berkowitz
Laboratory Manager

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070043

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Method 608 (PCB's)

Project No. 61012
Laboratory Project No. S-2976
Client Name: Heritage Remediation

Matrix: Water
Date Received: 4/22/92
Date Analyzed 4/22/92

Sample Location	Final Tank Effluent H-1	MDL ug/l
PCB-1016	ND	0.50
PCB-1221	ND	0.50
PCB 1232	ND	0.50
PCB-1242	0.685 ug/l (ppb)	0.50
PCB-1248	ND	0.50
PCB-1254	ND	0.50
PCB-1260	ND	0.50

By: I. Berkowitz
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070044

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

April 28, 1992

Mr. Joe Ritchey
Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: Project No. 61012

Lab Project No. S-2976

Please note the following results for the One (1) Aqueous sample received on 4/22/92. All results are reported in mg/l (ppm) except for Ph.

Analysis ID	Final Tank Effluent Water H-1
BOD	65.7
COD	3250
T.S.S.	10.0
Ph	8.229

By:

Irving Berkowitz
Laboratory Manager

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070045

S-2976

HERITAGE

CHAIN OF CUSTODY RECORD

HERITAGE REMEDIATION/ENGINEERING, I

Toledo Division • 5656 Opportunity Drive • Toledo

PROJ. NO.	PROJECT NAME
6102 600	HEXCEL

SAMPLERS: (Signature) ESSAM E SALEH

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	BOD's	COD's	T.S.S.	PH	PCB's	REMARKS
H1	4/22/92	1405		X	FINAL TANK H1	2XQts	X	X	X	X	X	RUSH PCB's
												STANDARD ON THE OTHERS

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
ESSAM E SALEH	4/22/92 1420				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

884070046

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Ave E. Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Method 608 (PCB's)

Project No. 61012
Laboratory Project No. S-3009
Client Name: Heritage Remediation

Matrix: Water
Date Received: 4/29/92
Date Analyzed 4/29/92

Sample Location	Final Tank Effluent H-1	MDL ug/l
PCB-1016	ND	0.50
PCB-1221	ND	0.50
PCB 1232	ND	0.50
PCB-1242	ND	0.50
PCB-1248	ND	0.50
PCB-1254	ND	0.50
PCB-1260	ND	0.50

By:
Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected

884070047

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Client Name: Heritage Rem/Engineer. Co Date: May 13, 1992
Laboratory Project # S-3017
Reference: Hexel, End of Discharge Hose
Location: Lodi, New Jersey

LABORATORY AUTHENTICATION STATEMENT

I certify that ALL-TEST ENVIRONMENTAL LABORATORIES meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18, 40 CFR Part 136 for Water and Wastewater analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR Part 136, and/or SW 846.

By: I. Berkowitz

Irving Berkowitz
Laboratory Manager

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070048

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile Organic Analysis Data

Case Id. Hexcel #61012 Matrix: Water
Sample No. S-3017 Discharge Hose Dilution Factor: 2:1
Client Name: Heritage Rem./Eng. Date Analyzed: 5/13/92

COMPOUND	UG/L	MDL
Chloromethane	ND	20
Vinyl Chloride	ND	20
Bromomethane	ND	20
Chloroethane	ND	20
Trichlorofluromethane	ND	10
1,1-Dichloroethene	ND	10
Methylene Chloride	166.93	10
Trans-1,2 Dichloroethene	ND	10
1,1 Dichloroethane	ND	10
Chloroform	ND	10
1,1,1-Trichloroethane	ND	10
Carbon Tetrachloride	ND	10
Benzene	ND	10
1,2-Dichloroethane	ND	10
Trichloroethene	9.23	10
1,2-Dichloroprapane	ND	10
Bromodichloromethane	ND	10
Trans-1,3-Dichloropropene	ND	10
Toluene	8.12	10
Cis-1,3-Dichloropropene	ND	10
1,1,2-Trichloroethane	ND	10
2-Chloroethyl Vinyl Ether	ND	10
Tetrachloroethene	167.78	10
Dibromochloromethane	ND	10
Chlorobenzene	429.38	10
Ethylbenzene	ND	10
m&o Xylenes	ND	20
p Xylene	ND	20
Bromoform	ND	10
1,1,2,2-Tetrachloroethane	ND	10

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Volatile-Organic Analysis Data

Case Id. Hexcel #61012 Matrix: Water
Sample No. S-3017 Discharge Hose Dilution Factor: 2:1
Client Name: Heritage Rem./Eng. Date Analyzed: 5/13/92

COMPOUND	UG/L	MDL
1,3-Dichlorobenzene	14.04	20
1,2-Dichlorobenzene	34.69	20
1,4-Dichlorobenzene	240.34	20

ND = None Detected
MDL = Method Detection Limit
J = Below Method Detection Limit
** = Compound Found In Laboratory Blank

SURROGATE COMPOUNDS	RECOVERY	LIMITS
1,2-Dichloroethane-d4	71%	70-121
Toluene-d8	112%	81-117
4-Bromofluorobenzene	87%	74-121

By: _____
Irving Berkowitz
Laboratory Manager

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070050

S-3017

HERITAGE

CHAIN OF CUSTODY RECORD

HERITAGE REMEDIATION/ENGINEERING,

Toledo Division • 5656 Opportunity Drive • Toled

PROJ. NO. 67872 600

PROJECT NAME: HERCEL

SAMPLERS: (Signature) ESSAM E SALEH

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOC's	REMARKS
H1	5/4/92	1430		X	END of DISCHARGE HOSE (FROM TANK H1)	2x40 mL	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
ESSAM E SALEH	5/4/92 4:45	[illegible]			

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks

884070051

APPENDIX C

Revision to Sewer Connection Permit

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

May 14, 1992

5/19/92

Fine Organics Corporation
205 Main Street
Lodi, New Jersey 07644

CERTIFIED MAIL
P 034 413 424

Attn: James R. Higdon

RE: REVISIONS TO SEWER CONNECTION PERMIT

Dear Mr. Higdon:

Enclosed are the revisions to your Industrial Sewer Connection Permit. Please review and attach these changes to your existing Permit accordingly.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

Frank P. D'Ascensio,
Manager of Industrial & Pollution Control

FPD/mc

Enclosures

cc: Borough of Lodi

884070053

PASSAIC VALLEY SEWERAGE COMMISSIONERS

SEWER CONNECTION PERMIT

PERMIT # 17405042

(Please use the Permit Number on any correspondence with PVSC)
In compliance with the provisions of the Federal Water Pollution Control Act, its amendments, the Clean Water Act and the Rules and Regulations of the Passaic Valley Sewerage Commissioners:

Fine Organics Corporation

(herein, after referred to as the Permittee)

is authorized to discharge from a facility located at

205 Main Street

Lodi, New Jersey 07644-0687

to the Passaic Valley Sewerage Commissioners Treatment Works in accordance with discharge limitations, monitoring requirements and other conditions set forth herein.

EFFECTIVE DATE 05/27/91

EXPIRATION DATE 05/27/96

PASSAIC VALLEY SEWERAGE COMMISSIONERS

BY: _____
EXECUTIVE DIRECTOR

884070054

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (05/27/91) and lasting through (05/27/96) the permittee is authorized to discharge from outlet(s) number(ed) (17405041-37430-0171). Such discharge shall be monitored by the permittee as specified below. Volume to be determined from water consumption data Plus Well Meter Readings less 5% credit for evaporation. Sample Point is Located in Sump Designated #p2 along the South Wall in Building #2.

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
		DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXX	XXXXX	Monthly	24 hr. comp.	Monthly
TSS (0530)	XXXXX	XXXXX	Monthly	24 hr. comp.	Monthly
pH (9000)	XXXXX	5 to 10.5	Continuous	Recorder	*
Volume	XXXXX	XXXXX	XXXXX	XXXXX	Monthly

* Permittee to store pH Recorder Charts and have available for review by PVSC personnel on demand.

Rev: 05/92

884070055

C. EFFLUENT LIMITATIONS, MONITORING AND COMPLIANCE REQUIREMENTS

1. During the period beginning (05/27/91) and lasting through (11/30/92) the permittee is authorized to discharge from outlet(s) number(ed) (17405041-37430-0171). Such discharge shall be monitored by the permittee as specified below. Volume to be determined from flowmeter readings. Pretreated Basement Seepage and Groundwater Discharge for Hexcel Corporation.*

EFFLUENT CHARACTERISTIC	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
		DAILY MAX	MEASUREMENT FREQUENCY	SAMPLE TYPE	REPORTING PERIOD
BOD (0310)	XXXXX	XXXXX	Twice/Week	24 hr. comp.	Monthly
TSS (0530)	XXXXX	XXXXX	Twice/Week	24 hr. comp.	Monthly
pH (9000)	XXXXX	5 to 10.5	Twice/Week	Grab	Monthly
COD (0340)	XXXXX	XXXXX	Twice/Week	24 hr. comp.	Monthly
VOC	XXXXX	XXXXX	Monthly	Grab	Monthly
PCB'S	XXXXX	1.0 ug/l	Twice/Week	24 hr. comp.	Monthly
Volume	XXXXX	7200 gal.	N/A	N/A	Monthly

* Refer to Page 8 Section 2 E for additional information

Rev: 05/92

8840700S6

2. In addition to the monitoring required in Section C.1. the Permittee is required to meet the following schedule of compliance:

A. Analysis of wastewater parameters shall be performed by a laboratory that has been certified by the State of New Jersey.

B. When Final Pretreatment Standards are promulgated permittee shall submit a Baseline Monitoring Report to PVSC in accordance with 40 CFR 403.12 and any subsequent revisions (copy attached).

C. 06/30/91 Floor Drains to be sealed in the following building.

1. Building #3 - Drying Room Floor
2. Building #4 - First Floor Level
3. Building #5 - Warehouse

D. Permittee is required to submit on the MR-2 Reports a water balance showing Well Water, Purchased Water, Evaporation and volume discharged.

E. Requirements for Discharge of Pretreated Groundwater and Basement Seepage for Hexcel Corporation from 05/27/91 to 11/30/92:

1. Flowmeter to measure volume discharged having a non resettable totalizer.

2. Volume discharged not to exceed 5 gallons a minute for a total of 7200 gallons in a 24 hour day.

3. Analysis to be done for parameters indicated on monitoring Page 7 of this Permit before the treatment system and after to show the efficiency of system.

4. Water Balance and Lab Certifications to be submitted in accordance with reporting frequency indicated on monitoring page of this Permit.

5. Monthly status report outlining milestones and progress to be submitted as an attachment to the MR-2 Report.

APPENDIX D

Qualitative GC Fingerprint
Soil Boring 508

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

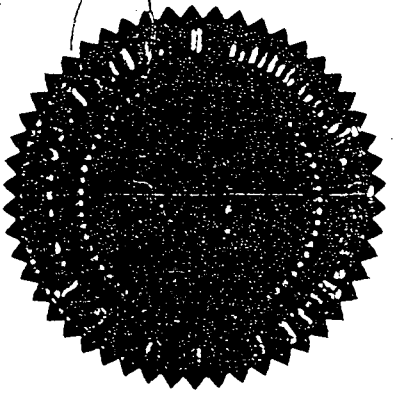
Client Name: Heritage Rem./Eng. Date: May 15, 1992
Laboratory Project # S-2990
Reference: Hexcel
Project # 61064

LABORATORY AUTHENTICATION STATEMENT

I certify that ALL-TEST ENVIRONMENTAL LABORATORIES meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18, 40 CFR Part 136 for Water and Wastewater analyses and SW 846 for Solid Waste Analyses. I have personally examined and am familiar with the information contained in this report, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, complete, and meets the standards specified in N.J.A.C. 7:18, 40 CFR Part 136, and/or SW 846.

By:

Irving Berkowitz
Laboratory Manager



CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070059

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

May 15, 1992

Mr. Joe Ritchey
Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: Hexcel: Proj. # 61064

Laboratory Project No. S-2990

Date Received: 4/24/92
Date analyzed: 5/13/92
Sample Matrix: Soil
Lab Project No. S-2990
Sample ID: 508-004

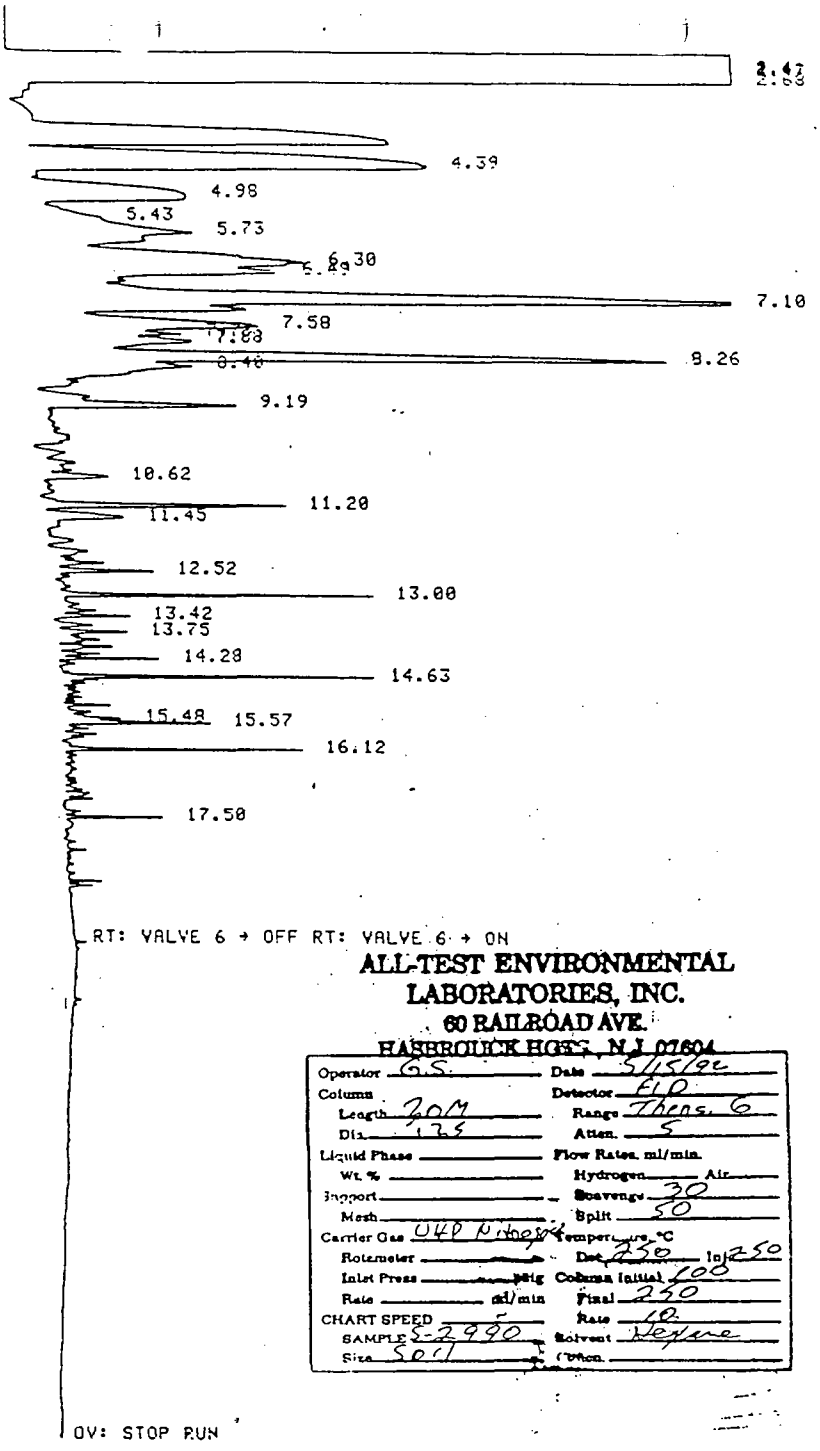
Analyzed a oily Soil sample for a " Qualitative G.C. Fingerprint ".

Analysis -

The peak patterns for this GC Fingerprint were compared to known standards and found not to match any of them. Quantitative analysis was impossible in as much as we do not have a known standard for the oil contained in the soil sample.

By:

Irving Berkowitz
Laboratory Manager



159

SUPELCO, Bellefonte, PA Cat No. 2-3870 (pad) Cat No. 2-3888 (box of 10 pads)

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 RAILROAD AVE.
HASBROUCK HGTS., N.J. 07604

Operator	G.S.	Date	5/15/92
Column		Detector	FID
Length	30M	Range	Thous. 6
Dia.	.25	Atten.	5
Liquid Phase		Flow Rates, ml/min.	
Wt. %		Hydrogen	Air
Support		Scavenge	30
Mesh		Split	50
Carrier Gas	UHP Nitrogen	Temperature, °C	
Rotameter		Det. 250	Inj. 250
Inlet Press.	psig	Column Initial	100
Rate	ml/min	Final	250
CHART SPEED		Rate	10
SAMPLE	S-2990	Solvent	Hexane
Size	5.0 µl	Other	

[hp] 5880A SAMPLER INJECTION @ 11:12 MAY 15, 1992
SAMPLE # : ID CODE :
2

AREA %

160

RT	AREA	TYPE	AREA %
2.41	1425330.00	BV	74.517
2.47	412864.00	VV	21.585
2.68	53861.10	VB	2.816
4.39	1183.75	PB	0.062
4.98	1455.22	PV	0.076
5.43	44.31	PV	0.002
5.73	441.34	VP	0.023
6.30	265.37	BV	0.014
6.49	553.29	VB	0.029
7.10	5333.92	PV	0.279
7.58	1173.93	PV	0.061
7.73	247.53	VV	0.013
7.88	355.86	VV	0.019
8.26	3395.45	BV	0.178
8.48	398.14	VV	0.021
9.19	784.60	VP	0.041
10.62	227.33	VV	0.012
11.20	723.96	PH	0.038
11.45	411.28	HH	0.022
12.52	774.88	HH	0.040

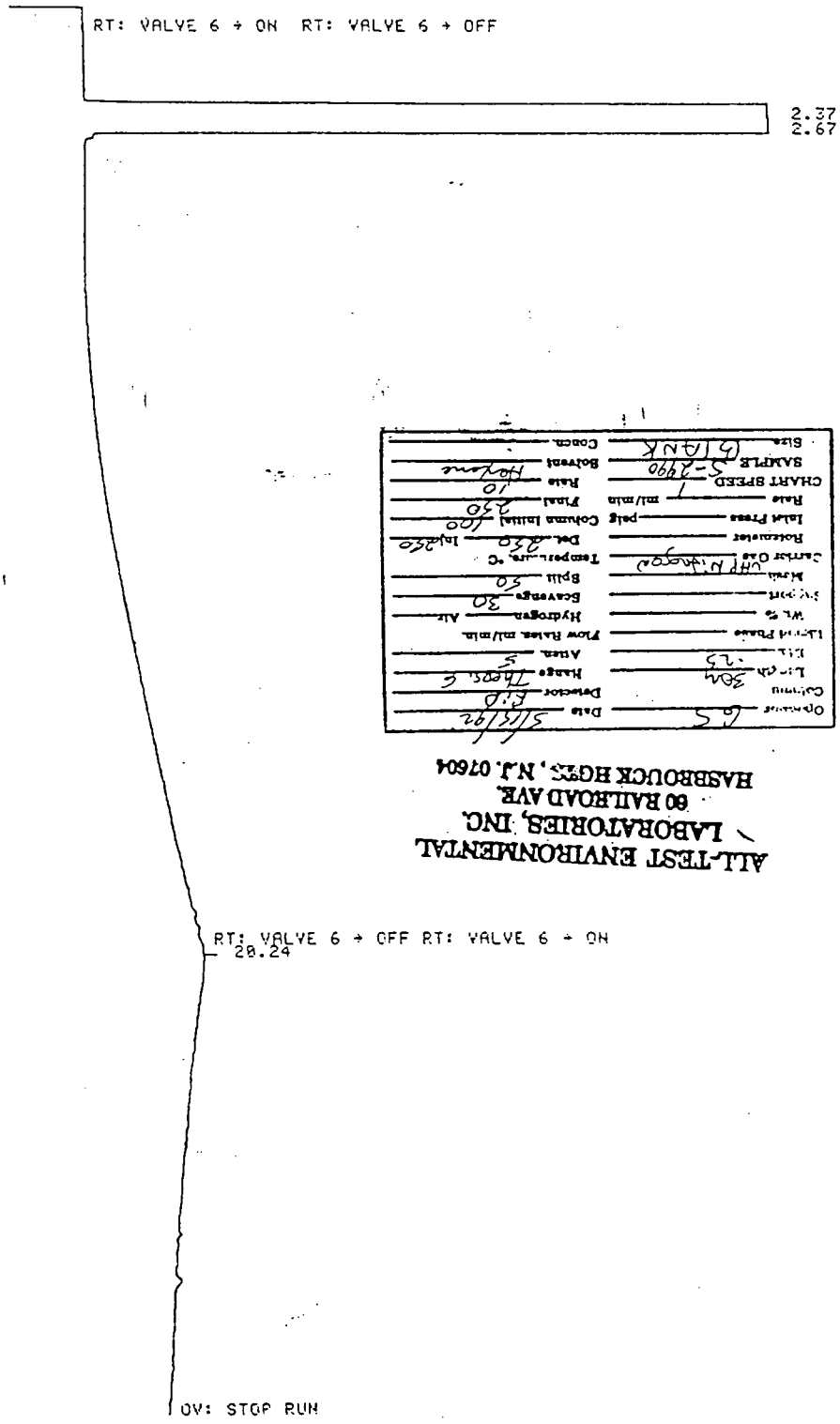
884070061

THRESHOLD 6

ZERO

LIST ZERO
ZERO = 34.14

START AUTO SEQ



ALL-TEST ENVIRONMENTAL
LABORATORIES, INC.
60 RAILROAD AVE.
HASBROUCK HGTS., N.J. 07604

[hp] 5880A SAMPLER INJECTION @ 10:35 MAY 15, 1992
SAMPLE # : ID CODE :
1

AREA %

RT	AREA	TYPE	AREA %
2.37	1753400.00	BV	96.568
2.67	62310.40	VB	3.432
20.24	1.99	BB	0.000

TOTAL AREA = 1815710.00
MULTIPLIER = 1

884070062

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

April 28, 1992

Mr. Joe Ritchey
Heritage Remediation/Engineering, Inc.
Toledo Division
5656 Opportunity Drive
Toledo, Ohio 43612

Re: Hexcel: Proj. # 61064

Laboratory Project No. S-2990

Please note the following results for the soil sample received on 4/24/92, and tested for **Total Petroleum Hydrocarbons.** All results are reported in mg/kg (ppm).

Sample ID	Percent Solids	Result
508-004	83.4%	925.8

By:

Irving Berkowitz
Laboratory Manager

Quality Control/Quality Assurance

Spike	Percent Recovery		Spike Dup.	Percent Recovery	
MW 33-008	100 ppm	100.8%	MW 33-008	100 ppm	97.5%

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070063

ALL-TEST ENVIRONMENTAL LABORATORIES, INC.
60 Railroad Avenue, Hasbrouck Heights, N.J. 07604
(201) 288-6511 FAX: (201) 288-6887

Method 608 (PCB's)

Project No. 61064
Laboratory Project No. S-2990
Client Name: Heritage Remediation

Matrix: Soil
Date Received: 4/24/92
Date Analyzed 5/13/92

Parameters	508-004	MDL ug/ml
PCB-1016	ND	1.00
PCB-1221	ND	1.00
PCB 1232	ND	1.00
PCB-1242	ND	1.00
PCB-1248	ND	1.00
PCB-1254	ND	1.00
PCB-1260	ND	1.00

By: I. Berkowitz

Irving Berkowitz
Laboratory Manager

MDL = Method Detection Limit
ND = Non Detected

CERTIFIED BY NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, LAB. #02525

884070064

3-2170

HERITAGE

CHAIN OF CUSTODY RECORD

HERITAGE REMEDIATION/ENGINEERING, INC.

Toledo Division • 5656 Opportunity Drive • Toledo, OH 436

PROJ. NO.	PROJECT NAME
61064	Hexcel

SAMPLERS: (Signature) Heidi Wilbarger

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PCB	TPH	LEAD Fingerprint				REMARKS
01	4-21			X	508-004	1	X	X	X				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Heidi Wilbarger	4-23-92 3:06	Robert M. Bangert	Robert M. Bangert	4/24/92 0900	D. Gabrod
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

88407006S